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GROUPS ACTING ON TREES TH. WEIGEL Preface This manuscript is a collection of the handouts of a course with the same title ... a general discussion of groups acting on graphs (or trees) with various group theoretical constructions; (3) the discussion of the notion graph of groups and its related concepts.

GROUPS ACTING ON TREES - Matematica e Applicazioni

1.1 Properties of Rooted Trees 7 1.2 Basic Concepts 9 Chapter Two GROUPS AS GRAPHS 17 Chapter Three IDENTITY GRAPHS OF SOME ALGEBRAIC STRUCTURES 89 3.1 Identity Graphs of Semigroups 89 3.2 Special Identity Graphs of Loops 129 3.3 The Identity Graph of a Finite Commutative Ring with Unit 134

GROUPS AS GRAPHS - arXiv

Graph Theory and Trees Graphs A graph is a set of nodes which represent objects or operations, and vertices which represent links between the nodes. The following is an example of a graph because it contains nodes connected by links.

Graph Theory and Trees - Triton College Academic Server

GROUPS ACTING ON TREES A. Raghuram & B. Sury 1 Introduction This is an expanded version of the notes of talks given by us in the instructional workshop on geometric group theory held in the Indian Institute ... combinatorially defined notion of a graph of groups associated to this ac-

GROUPS ACTING ON TREES - Indian Statistical Institute

5. Graphs & Trees. What are Graphs? ... A simple graph G is called bipartite if its vertex set V can be partitioned into two disjoint sets V_1 and V_2 such that every edge in the graph connects a vertex in V_1 and a vertex in V_2 (so Discrete Mathematics, Spring 2009)

5. Graphs & Trees - SNU

Graphs and Trees Graphs and trees come up everywhere. | We can view the internet as a graph (in many ways) | who is connected to whom | Web search views web pages as a graph | Who points to whom | Niche graphs (Ecology): | The vertices are species | Two vertices are connected by an edge if they compete (use the same food resources, etc.)

Graphs and Trees - Cornell University

Graphs and groups July 3, 2008 Graphs from groups Let G be a group, H a subgroup, and X some subset of G . We can define ... graph, or the cococomplete graph, depends on the choice of X . Choose X , and $H = 2$... S_3 , so as to obtain the Petersen graph \hat{P} . What

Graphs and groups - TU/e

SANDPILE GROUPS AND SPANNING TREES OF DIRECTED LINE GRAPHS LIONEL LEVINE Abstract. We generalize a theorem of Knuth relating the oriented spanning trees of a directed graph G and its directed line graph LG . The sandpile group is an abelian group associated to a directed graph, whose order is the number of oriented spanning trees rooted at a ...

SANDPILE GROUPS AND SPANNING TREES OF DIRECTED LINE GRAPHS

Module 8: Trees and Graphs Theme 1: Basic Properties of Trees A (rooted) tree is a finite set of nodes such that there is a specially designated node called the root. the remaining nodes are partitioned into d ... -ary tree, which is neither a full tree nor a complete tree.

Module 8: Trees and Graphs - Purdue University

Graphs of groups. Action of $SL_2(\mathbb{Z})$ on a tree Theorem The union of the images of the arc $T = \{e^{j\pi/3} : j=0,1,2\}$ under the action of the group $SL_2(\mathbb{Z})$ is a tree. $SL_2(\mathbb{Z})$ acts on this tree without inversion on edges and so that distinct points of the arc are inequivalent. The stabilizers of endpoints are generated by the matrices $A = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$ and $B \dots$

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